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Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

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(54) Title: ASSAY FOR THE MEASUREMENT OF MULTILINEAGE STEM CELLS AND METHODS OF USE THEREOF

(57) Abstract

(30) Priority Data:

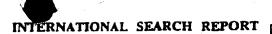
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The present invention encompasses methods of detecting and quantitating hematopoietic stem cells in a population of hematopoietic cells. A population of hematopoietic cells is first obtained and treated to enrich for stem cells. Single cells in the enriched population are deposited onto a suitable growth substrate such as a well in a 96 well microtiter plate. The single cell deposits are cultured under conditions suitable to maintain viability and induce differentiation. The resultant populations are then assayed for the expression of lineage-specific messenger RNA transcripts specific to at least two different lineages. The presence of transcripts specific to two or more different lineages is scored as positive for the initial presence of a stem cell.

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Ins ional Application No PCT/EP 95/04480

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4	see page 3, line 32 - line 34 see page 4, line 31 - page 5, li	ne 15			
	see page 6, line 25 - line 30				
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	see page 10, line 15 - page 16,	line 27			
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Name and	nd mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Riswijk Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl.	Authorized officer Gurdjian, D	* * * * * * * * * * * * * * * * * * *		





In tronal Application No

PCT/EP 95/04480

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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim	Relevant to claim No.				
(BLOOD, FEB 1 1993, 81 (3) P647-55, UNITED STATES, XP000564653 MOUTHON MA ET AL 'Expression of tal-1 and	1-23,					
	GATA-binding proteins during human hematopoiesis.' see the whole document						
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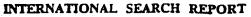
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PCT/EP 95/04480

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
	in .
This into	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
, \sqcap	Claims Nos.:
اللا ٠٠	because they relate to subject matter not required to be searched by this Authority, namely:
. \Box	
2	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
5	
з. 🔝	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
•	
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Int	ernational Searching Authority found multiple inventions in this international application, as follows:
1	Claims 1-30: A method for detecting the presence of a hematopoietic
1.	stemm cell
2.	Claims 31-31: Oligonucleotides
i. 🗌	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	A . II
4 🗀	As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report
	covers only those claims for which rees were paid, specifically claims (vos.)
4. X	No required additional search fees were timely paid by the applicant. Consequently, this international search report is
	restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
**	1-30
Remark	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
	140 protest accompanied the payment of auditional seaton rees.
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information on patent family members



In ational Application No

PCT/EP 95/04480

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